

Product datasheet for **SC303147**

Integrin alpha 3 (ITGA3) (NM_002204) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Integrin alpha 3 (ITGA3) (NM_002204) Human Untagged Clone
Tag: Tag Free
Symbol: ITGA3
Synonyms: CD49C; FRP-2; GAP-B3; GAPB3; ILNEB; MSK18; VCA-2; VL3A; VLA3a
Mammalian Cell Selection: None
Vector: pCMV6-XL6
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002204 edited
 ATGGGCCCGGCCAGCCGCGCGCCCGCCACGCCTGATGCTCTGTGCGCTCGCC
 TTGATGGTGGCGCCGGCGGCTGCGTCTCGCCTTCAACCTGGATACCCGATTCCTG
 GTAGTGAAGGAGCCGGGAACCCGGGCAGCCTCTTCGGCTACTCGGTCGCCCTCCATCGG
 CAGACAGAGCGGCAGCAGCGCTACCTGCTCCTGGCTGGTGCCCGGGAGCTCGCTGTG
 CCCGATGGCTACACCAACCGGACTGGTGTGTGTACCTGTGCCACTCACTGCCACAAG
 GATGACTGTGAGCGGATGAACATCACAGTGAAAAATGACCCTGGCCATCACATTATTGAG
 GACATGTGGCTTGGAGTACTGTGGCCAGCCAGGGCCCTGCAGGCAGAGTTCTGGTCTGT
 GCCCACCGCTACCCAGGTGCTGTGGTCAGGGT CAGAAGACCAGCGGCATGGTGGGC
 AAGTGCTACGTGCGAGGCAATGACCTAGAGCTGGACTCCAGTGATGACTGGCAGACCTAC
 CACAACGAGATGTGCAATAGCAACACAGACTACCTGGAGACGGGCATGTGCCAGCTGGGC
 ACCAGCGGTGGCTTACCCAGAACACTGTGTACTTCGGGCCCGCCGGTGCCTACAACCTGG
 AAAGGAAACAGCTACATGATTCAGCGCAAGGAGTGGGACTTATCTGAGTATAGTTACAAG
 GACCCAGAGGACCAAGGAAACCTCTATATTGGGTACACGATGCAGGTAGGCAGCTTCATC
 CTGCACCCAAAAACATCACCATTGTGACAGGTGCCCCACGGCACCGACATATGGGCGCG
 GTGTTCTTGCTGAGCCAGGAGGCAGGCGGAGACCTGCGGAGGAGGCAGGTGCTGGAGGGC
 TCGCAGGTGGGCGCCTATTTGGCAGCGCAATTGCCCTGGCAGACCTGAACAATGATGGG
 TGGCAGGACCTCCTGGTGGGCGCCCCCTACTACTTCGAGAGGAAAGAGGAAGTAGGGGGT
 GCCATCTATGTCTCATGAACCAGGCGGGAACCTCCTCCCTGCTCACCCCTCACTCCTT
 CTTATGGCCCCAGTGGCTCTGCCTTTGGTTTATCTGTGGCCAGCATTGGTGACATCAAC
 CAGGATGGATTTCAAGATATTGCTGTGGGAGCTCCGTTTGAAGGCTTGGGCAAAAGTGATC
 ATCTATCACAGTAGCTCTAAGGGGCTCCTTAGACAGCCCCAGCAGGTAATCCATGGAGAG
 AAGCTGGGACTGCCTGGTTGGCCACCTTCGGCTATTCCCTCAGTGGGCAGATGGATGTG
 GATGAGAACTTCTACCCAGACCTTCTAGTGGGAAGCCTGTCAGACCACATTGTGCTGCTG
 CGGGCCCCGCCAGTCATCAACATCGTCCACAAGACCTTGGTGGCCAGGCCAGCTGTGCTG
 GACCCTGCACTTTGCACGGCCACCTCTTGTGTGCAAGTGGAGCTGTGCTTTGCTTACAAC
 CAGAGTGCCGGGAACCCAACTACAGGCGAAACATCACCTGGCCTACACTCTGGAGGCT



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GACAGGGACCGCCGGCCCGCCCGCTCCGCTTTGCCGGCAGTGAGTCCGCTGTCTCCAC
 GGCTTCTTCTCCATGCCCGAGATGCGCTGCCAGAAGCTGGAGCTGCTCCTGATGGACAAC
 CTCCGTGACAACTCCGCCCATCATCATCTCCATGAACTACTCTTTACCTTTGCCGGATG
 CCCGATCGCCCCCGGCTGGGGTCCCTGGACGCCACCCGATCCTCAACCAGGCA
 CAGGCTCTGGAGAACCACACTGAGGTCCAGTTCAGAAGGAGTGCGGCCTGACAACAAG
 TGTGAGAGCAACTGCAGATGCGGGCAGCCTTCGTGTAGAGCAGCAGCAGAAGCTGAGC
 AGGCTCCAGTACAGCAGAGACGTCGGAAATTGCTCCTGAGCATCAACGTGACGAACACC
 CGGACCTCGGAGCGCTCCGGGGAGGACGCCACGAGGCGCTGCTACCCTGGTGGTGCCT
 CCCGCCCTGCTGTCTCAGTGCGCCCCCGGGCCTGCCAAGCTAATGAGACCATC
 TTTTGGAGCTGGGAACCCCTTCAAACGGAACAGAGGATGGAGCTGCTCATCACCTTT
 GAGGTCATCGGGGTGACCCTGCACACAAGGGACCTTCAGGTGCAGCTGCAGCTCTCCAG
 TCGAGTACCAGGACAACCTGTGGCCATGATCCTCACTCTGCTGGTGGACTATACACTC
 CAGACCTCGTTAGCATGGTAAATCACCAGGCTACAAAGCTTCTTTGGGGGACAGTGATG
 GGTGAGTCTGGCATGAAAAGTGTGGAGGATGTAGGAAGCCCCCTCAAGTATGAATCCAG
 GTGGGCCAATGGGGAGGGGCTGGTGGCCTGGGGACCTGGTCTAGGTCTGGAGTGG
 CCTACGAAGTCAGCAATGGCAAGTGGTGTGTATCCACGGAGATCACCGTCCATGGC
 AATGGGTCTGGCCCTGCCGACCACCTGGAGACCTTATCAACCCTCTCAACCTCACTCTT
 TCTGACCTGGGGACAGGCCATCATCCCCACAGCGCAGGCGGCGACAGCTGGATCCAGGG
 GGAGGCCAGGGCCCCCCTGTCACTCTGGCTGCTGCCAAAAAGCCAAGTCTGAGACT
 GTGCTGACCTGTGCCACAGGGCGTGGCCACTGTGTGTGGCTAGAGTGCCCATCCCTGAT
 GCCCCGTTGTACCAACGTGACTGTGAAGGCACGAGTGTGGAACAGCACCTTCATCGAG
 GATTACAGAGACTTTGACCGAGTCCGGGTAATGGCTGGGCTACCCTATTCCTCCGAACC
 AGCATCCCACCATCAACATGGAGAACAAGACCAGTGGTTCTCTGTGGACATTGACTCG
 GAGCTGGTGGAGAGCTGCCGGCGAAATCGAGCTGTGGCTGGTGTGGTGGCCGTGGGT
 GCAGGGCTGCTGTCTGGGGCTGATCATCCTCCTGCTGTGGAAGTGCGGCTTCTCAAG
 CGAGCCCGCACTCGCGCCTGTATGAAGCTAAGAGGCAGAAGGCGGAGATGAAGAGCCAG
 CCGTCAGAGACAGAGAGGCTGACCGACGACTACTGA

- Restriction Sites:** NotI-NotI
- ACCN:** NM_002204
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by a single amino acid.
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
- RefSeq:** [NM_002204.1](#), [NP_002195.1](#)

RefSeq Size:	4637 bp
RefSeq ORF:	3156 bp
Locus ID:	3675
UniProt ID:	P26006
Cytogenetics:	17q21.33
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Pathways in cancer, Regulation of actin cytoskeleton, Small cell lung cancer
Gene Summary:	<p>The gene encodes a member of the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain that function as cell surface adhesion molecules. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 3 subunit. This subunit joins with a beta 1 subunit to form an integrin that interacts with extracellular matrix proteins including members of the laminin family. Expression of this gene may be correlated with breast cancer metastasis. [provided by RefSeq, Oct 2015]</p>